RESTRICTED CIRCULATION

THIS PAPER IS NOT AN OFFICIAL DOCUMENT; IT IS FOR INFORMATION ONLY AND MUST NOT BE QUOTED IN ANY PRINTED PUBLICATION

Agricultural Memorandum No 769
Accumulated Radiation during the growing season

L P Smith

The accumulated incoming radiation over the growing season may have some use in problems of potential production. The results for the mean values derived for the agroclimatic areas are as follows, in units of 1000 mw-hr per cm^2.

IN	IS	2	3	4	5	6	7	
74.8	73.9	63.0	74.8	62.5	74.5	61.2	73.7	
8	9	10	11	12	13			
76.8	80.7	66.6	73.3	76.7	78.3			
14	15W	15E	16	17W	17E			
79.2	73.4	76.3	77.2	81.0	80.7			
18N	18S	19	20	21	22W	22E		
78.9	75.4	77.0	77.2	80.4	77.9	79.4		
23	24	25N	25S	26	27	28	29	
83.2	83.3	81.0	82.7	80.9	81.4	82.3	83.6	
30	31N	31S	32	33W	33E	34		
83.6	83.0	84.8	84.0	83.1	86.4	88.4		
35	36	37N	37S	38N	38S	39W	39E	
85.9	84.4	86.4	91.5	86.5	91.5	86.0	90.2	
40	41	42	43N	43S	44	45W	45E	
96.9	87.6	90.3	80.8	90.7	84.3	89.9	88.8	
46	47	48N	48S	49N	49S	50	51	52
91.9	87.7	69.4	71.1	71.2	72.7	84.1	75.4	84.1
IDM	Scilly	IOW	Channel I					
82.6	102.9	99.5	104.2					

The correlation with the potential transpiration during the growing season is 0.95 and approximations can be found from the formula $\frac{143.5PT}{GS} + 14,838$

Any comments or suggestions on this paper should be referred to the author.

Meteorological Office
Bracknell
December 1975